

Title (en)
DEVICE FOR PREVENTING EXPLOSIONS IN ELECTRICAL TRANSFORMERS

Title (de)
VORRICHTUNG ZUR VERHÜTUNG VON EXPLOSION FÜR ELEKTRISCHE TRANSFORMATOREN

Title (fr)
DISPOSITIF DE PREVENTION CONTRE L'EXPLOSION DES TRANSFORMATEURS ELECTRIQUES

Publication
EP 1166297 B1 20030514 (FR)

Application
EP 00910985 A 20000317

Priority
• FR 0000666 W 20000317
• FR 9903534 A 19990322

Abstract (en)
[origin: US6804092B1] Device for prevention against explosion of an electrical transformer comprising an enclosure filled with combustible coolant, and a means for decompressing the enclosure of the transformer. The decompression means comprises a rupture element 1 with integrated explosion detector provided with a retention part 4 including first zones which have a reduced thickness in comparison with the rest of the retention part 4 and are capable of tearing without fragmenting when the said element 1 ruptures, and second zones which have reduced thickness in comparison with the rest of the retention part 4 and are capable of folding without tearing when the said element 1 ruptures. The said rupture element 1 is capable of breaking when the pressure inside the enclosure exceeds a predetermined ceiling. The signal from an explosion detector integrated with the rupture disc triggers a cooling system and prevents oxygen from coming into contact with the explosive gases generated by the electric arc in contact with the oil.

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IPC 8 full level
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CPC (source: EP KR US)
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Cited by
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US 6804092 B1 20041012; AR 029342 A1 20030625; AT E240580 T1 20030515; AU 3300100 A 20001009; AU 769904 B2 20040205; BG 105907 A 20020731; BG 64202 B1 20040430; BR 0009222 A 20011226; BR 0009222 B1 20101019; CA 2367163 A1 20000928; CA 2367163 C 20101012; CN 1178233 C 20041201; CN 1346499 A 20020424; CO 5241347 A1 20030131; CZ 20013417 A3 20020213; CZ 300916 B6 20090909; DE 60002698 D1 20030618; DE 60002698 T2 20040408; DK 1166297 T3 20030915; EG 21947 A 20020430; EP 1166297 A1 20020102; EP 1166297 B1 20030514; ES 2199146 T3 20040216; FR 2791463 A1 20000929; FR 2791463 B1 20010629; GC 0000185 A 20060329; HK 1042772 A1 20020823; HK 1042772 B 20050401; HU 225863 B1 20071128; HU P0200545 A2 20020629; HU P0200545 A3 20030228; IL 145427 A0 20020630; IL 145427 A 20070308; JO 2193 B1 20031223; JP 2002540596 A 20021126; JP 5051940 B2 20121017; KR 100740617 B1 20070718; KR 20020033601 A 20020507; MX PA01009562 A 20030819; MY 120382 A 20051031; NZ 514238 A 20030530; PL 195512 B1 20070928; PL 350988 A1 20030224; PT 1166297 E 20030930; RU 2263989 C2 20051110; TW 419680 B 20010121; UA 61167 C2 20031117; WO 0057438 A1 20000928; ZA 200107559 B 20020913

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